The and organization of the state of the sta



## DOCUMENT No. 25.

## BOARD OF ALDERMEN,

FEBRUARY 4, 1851.

The minority of the Special Committee on Gas Contracts, presented a report thereon, which was laid on the table and ordered to be printed.

D. T. VALENTINE, Clerk.

The undersigned, of the Special Committee in relation to Gas Contracts, differing from the majority of said Committee, respectfully

#### REPORTS:

That the other members of the Committee, with Alderman Wood, constituted the entire Committee to whom the subject was referred, at an early period of the year 1850. A report was made on the 11th December, 1850, which, with the resolution attached, was adopted the same evening, and

being immediately concurred in by the Board of Assistant Aldermen, required only the signature of his Honor the Mayor to have become binding as a contract between the city and the New York Gas Company, said company assenting.

But the Mayor saw fit to veto the resolution, and to send it back to this Board for reconsideration. Accordigly it was re-committed, with the objections of his Honor the Mayor, for reconsideration; at which time, Alderman Wood, of the Special Committee, having ceased to be a member of the Board, the undersigned was appointed, by resolution of the Board, to serve on the Committee in his place.

At the meetings of this Committee, the undersigned found it impossible to concur in the views expressed by the majority, and was forced to dissent from their report; but he considers that the importance of the subject justifies him in presenting to your Honorable Body his own suggestions, together with the facts which form the basis of his opinions.

The Committee has recommended that a new contract be made with the New York Gas Company, to light the public lamps, for a term of years, on specified conditions.

The undersigned holds that the public interest requires that no new contract should be made with the gas company, unless it contains special provisions compelling said company to furnish good gas, at a fair price, to private consumers, whose interests, the undersigned thinks, the authorities are bound to protect with as much solicitude as they show for the proper lighting of the public lamps.

The consumption of gas, in lighting the public lamps, is so inconsiderable, when compared with the demands of private consumers, that it is of small importance to the gas company whether they receive much or little for such supply; as they could well afford to light them for nothing, to have the use of the streets for their main pipes, to reach their private consumers; and even then to furnish the gas at a less price than they now pay, as is clearly shown by the experience of Philadelphia during the last ten years.

To sustain this position, the undersigned begs to call the attention of your Honorable Body to the following yearly statement of the operations of the Philadelphia Gas Works, which have been carefully compiled from the published annual reports of the trustees of those works, to the Select and General Councils of the city of Philadelphia.

## On the 1st of March, 1841,

The city of Philadelphia took the gas works from the company established in 1836, as a private corporation for the manufacture of gas, for which the company had been charging, from 1836 up to that time, at the rate of 35 cents per 100, or \$3 50 per 1000 cubic feet. The stockholders received, in full of all claims in the profits of said company, city stock, bearing interest at six per cent. The capital stock of the gas works, during the year 1841, was \$524,000, of which a large portion had been added during the year, for the extension of the works. The city continued to furnish gas at the same price, viz: 35 cents per 100, or \$3 50 per 1000 cubic feet, during the year 1841; and after paying interest on the capital, and all expenses of manufactur-

ing and purchase of materials, wages of workmen, salaries of officers, contingencies and repairs, the surplus profits for that year amounted to \$40,487 24, less suspended debt of \$1,536 23—being the amount of gas bills unpaid—leaving a net surplus, to this time, of \$38,951 01.

#### DURING THE YEAR 1842,

The city continued to furnish gas at the same rate, viz: 35 cents per 100, or \$3 50 per 1000 cubic feet. The capital, this year, was increased \$16,900, making \$540,900 in all of capital stock of the works, of which the surplus profits, after paying interest on capital, all expenses of materials and manufacture of gas, including wages and salaries, contingencies and repairs, amounted to \$52,610 86—making, up to this time, a surplus of \$93,098 10, less suspended debt of \$2,065 62, for gas bills unpaid; of this, \$60,399 25 was invested in the Sinking Fund, leaving a sum of \$30,633 23, not yet invested.

#### DURING THE YEAR 1843,

The price of gas continued at the same rate of 35 cents per 100, or \$3 50 per 1000 cubic feet. The capital stock this year was not increased; but the works were extended by means of the surplus profits, which, after paying interest on capital, all expenses of the materials and manufacture of the gas, including wages of workmen, salaries, incidental expenses and repairs, amounted to \$52,418 77—making, up to this time, a surplus of \$145,516 87, less suspended debt of \$1,830 04, for gas bills unpaid. There is invested in Sinking Fund, at this time, \$97,600, of gas and

city loans, leaving the sum of \$46,091 58, not yet invested. Up to this time, forty-five-and-a-quarter miles of main pipes have been laid through the streets.

#### During the year 1844,

The city supplied the gas at the same price, viz: 35 cents per 100, or \$3 50, per 1000 cubic feet, payable quarterly. The capital this year, was increased \$59,100, for extension of works, making the entire capital stock issued by the city \$600,000, of which the surplus profits, after deducing interest on capital, expenses of material and manufucturing of gas, wages of workmen, salaries of superintendent and clerks, incidental expenses and repairs, amounts to \$60,692 30, making up to this time, a surplus of \$206,209 17 less suspended debt, for amount of unpaid bills, \$1,957 44. There is invested in sinking fund of the gas works \$181,-949 90, and the balance forms part of the contingent fund for the enlargement of the works, extending the distribution, &c., as directed by ordinance of June 17, 1844. Sixty-four and one-fifth miles of main pipes have been laid through the streets to the end of this year.

#### During the Year 1845,

The gas was supplied by the city, at the same price of 35 cents per 100, or \$3 50, per 1000 cubic feet, until March 1, when it was reduced to 30 cents per 100, or \$3 per 1000 cubic feet. The bills are paid quarterly. The capital stock was not increased this year; but the works were extended by means of the surplus profits, notwithstanding the above reduction of the price of gas. The amount of surplus profits this year, after paying interest on capital, and all

expense of the materials and manufacture of gas, wages, salaries, incidental expenses, and for repairs, was \$55,916 90, making up to this time, a surplus of \$262,126 07, less suspended debt, for bills unpaid of \$1,729 89. Of this surplus, \$205,633 57 belongs to the sinking fund, and the balance, less the amount of the suspended debt, \$1,729 89, equal to \$54,492 50, forms the contingent fund for the extension of the gas works, and extraordinary repairs and renewals, as provided for by the ordinance of June 17, 1844. Sixty-seven and two-third miles of main pipes were laid in the streets, up to the end of this year.

### DURING THE YEAR 1846,

The price for gas was continued the same, viz: 30 cents per 100, or \$3, per 1000 cubic feet, until the 1st of February, when it was reduced to 28 cents per 100, or \$2 80 per 1000 cubic feet, at which price it was supplied, until July 1st of this same year, when it was again reduced to 25 cents per 100, or \$2 50 per 1000 cubic feet, payable quarterly, and was supplied at that price throughout the balance of that year. The capital stock was not increased this year; but, notwithstanding the two reductions in the price of gas during the year, the works were extended by means of the surplus profits, which, after deducting interest on capital, cost of materials, and manufacture of gas, wages of workmen, salaries of officers, incidental expenses and repairs, amounted to \$51,628 37, making up to this time a surplus of \$313,754 44, less suspended debt, for amount of unpaid bills of \$1,426 45. Of this surplus \$229,805 57, belongs to the sinking fund, and the balance

less the amount of the suspended debt, \$1,426 45, equal to \$82,522 42, forms the contingent fund for the extension of the gas works, and extraordinary repairs and renewals, as provided for by the ordinance of June 17, 1844, and May 7, 1846. Of this last sum, \$70,497 49, have already been expended. Seventy-three and two-third miles of main pipes were laid to the end of this very prosperous year.

Note—Up to this time, all the stock issued by the city for the gas works, has been Loans 1, 2, 3 and 4, amounting to \$600,000, all additional capital, has been appropriated from yearly surplus profits to contingent fund, for the extension of works, and has thus formed an addition to the capital.

#### DURING THE YEAR 1847,

The price of gas continued the same; viz: 25 cents per 100, or \$2,50 per 1000 cubic feet. The capital stock was not increased by city stock, but the works continued to be extended by means of the surplus profits, which, after paying interest on capital, expenses of manufacturing, and cost of materials, labor, salaries, contingencies and repairs, amounted to \$70,917 35, making up to this time, a surplus of \$384,671 79. less suspended debt of \$1,425 16. Of this surplus \$254,781 17, belongs to the sinking fund, and the balance \$129,890 62, less \$1,425 16, equal to \$128,465 46, is the contingent fund of the works, which has been applied for additions to the establishment. Seventy-six and two-fifths miles of main pipes have been laid to the end of this year.

#### DURING THE YEAR 1848,

The price of gas was continued at 25 cents per 100, or \$2 50 per 1000 cubic feet, till September 1st, when it was reduced to  $22\frac{1}{2}$  cents per 100, or \$2 25 per 1000 cubic feet, which is practically still further reduced to consumers by a discount of 5 per cent. on all gas bills, if paid within 5 days after delivery, which brings the actual price down to  $21\frac{4}{10}$  cents per 100, or \$2 14 per 1000 cubic feet; at which rate it remains at the present time, all bills being paid quarterly. The capital stock was this year increased \$70,000 by issue of city gas stock for the extension of the works, making \$670,000 issued by the city to this time. The surplus profits after deducting interest on the above capital, and all expenses of material, manufacturing, wages, salaries, incidental expenses, contingencies and repairs, amounted to \$62,178 35, making up to this time \$446,850 14, less suspended debt for unpaid bills of \$1,544 35. this surplus, \$281,864 84 went to sinking fund, and \$163,440 85 to contingent fund. Seventy-nine and onefifth miles of main pipes were laid up to the end of this year.

#### DURING THE YEAR 1849,

The price of gas was continued at  $22\frac{1}{2}$  cents per 100, or \$2 25 per 1000 cubic feet, with 5 per cent. off, for payment in 5 days after delivery of bills, the bills being paid quarterly. The capital stock was increased this year \$100,000 by issue of city gas stock for the extension of the works, making in all \$770,000 issued by the city to this time; all additional capital having been appropriated from surplus profits to contingent fund for the extension of the

works, which has been added to the capital, and up to January 1, 1850, the amount of contingent fund so added is \$192,575 05, making total capital at that date \$962,575 05. The surplus profits this year, after deducting interest on the capital, cost of materials, and all expenses of manufacture, including wages of workmen, salaries of officers and clerks, incidental expenses, contingencies and repairs, amount to \$64,792 19, making up to this time \$511,642 33 surplus, less suspended debt \$1,862 50. Of this surplus, \$317,204 78 belongs to the sinking fund, and \$192,575 05 to contingent fund. Ninety miles of main pipes are laid in the streets at the end of this year.

#### DURING THE YEAR 1850,

The price of gas was continued at the same rates, viz: 22½ cents per 100 feet, or \$2 25 per 1,000 feet, and 5 per cent. off for immediate payments. The increase of capital stock this year was \$197,000, making in all \$967,000 of stock issued by the city. The surplus profits for this year, after paying interest on capital, and all expenses of material and manufacturing gas, wages to workmen, salaries, incidental expenses, contingencies and repairs, amount to \$57,244 07, making to the present time a surplus of \$568,886 40. Ninety-four and three quarter miles of main pipes have been laid up to the end of this year in the streets.

Thus it will be seen, that the profits of the works during nine years up to 31st Dec., 1849, are \$511,642 33, of which \$192,575 05 has been used in the extension of the works, and \$317,204 78 is invested in the sinking fund in stocks of the gas works. The total surplus up to January 1, 1850, is \$510,642 33, and the profits for the year ending

31st December, 1850, are \$57,244 07, making the grand total of surplus profits, during ten years' business on a capital of only \$770,000, amount to \$568,868 40, exclusive of the suspended debt, which is for unpaid bills for gas.

The gas works have also supplied the districts of Spring Garden, Southwark and Moyamensing with gas, for  $17\frac{1}{2}$  cents per 100, and \$1.75 per 1,000 cubic feet, delivered at the line of the city, the parties laying their own mains, service pipes, &c., the gas works being at no expense after having delivered the gas to their line. The statement in the report of the Special Committee, Doc. No. 78, p. 1234, that "the works in Philadelphia charge 35 cents per 100 feet to the consumers in the district of Southwark, the same price as paid here," is therefore incorrect. The undersigned is at a loss to understand how or where the Committee procured this information, for they needed only to have applied at the Philadelphia gas works, where the undersigned applied, and they would have obtained correct information.

An impression existing in the minds of the members of this Board, in consequence of a misstatement in the report of the Special Committee on Gas, Doc. 78, page 1234, to the effect that in Philadelphia, "the charge for the public lamps is \$22 50 cents each. The undersigned called at the office of the Register of the works in that city, to ascertain the truth, and was politely furnished with the following statement of

#### "THE PRICE OF GAS IN PHILADELPHIA.

From Jan. 1st, 1836, when the works were established,

|     |                 | to Mar.  | 1st, 1845, | 35 cts.   | $\operatorname{\mathtt{per}}$ | 100 ft. | and | \$3 | 50 per | 1000 | cub. ft. |
|-----|-----------------|----------|------------|-----------|-------------------------------|---------|-----|-----|--------|------|----------|
| "   | Mar. 1st, 4845, | to Feb.  | 1st, 1846, | , 30 cts. |                               | 46      | and | 3   | 00     | "    | 4.6      |
| 4.6 | Feb. 1st, 1846, | to July  | 1st, 1846, | 28 cts.   |                               | 66      | and | 2   | 80     | "    | 66       |
| "   | July 1st, 1846, | to Sept. | 1st, 1846, | 25 cts    |                               | "       | and | 2   | 50     | "    | "        |
| 6.8 | Sept 1st, 1848, | to prese | ent time,  | 22} cts.  |                               | "       | and | 2   | 25     | "    | "        |

"A discount of five per cent. is taken from all bills for gas, if paid at the office within five days after delivery; if not paid in ten days after delivery of the bill, the gas to be cut off for non-payment.

"The street lamps supplied to the city were charged at \$1 75 per 1000 feet, from the commencement to the 1st June, 1848; from the 1st June, 1848, to March 1st, 1850, at \$1 25 cents per 1000 feet, and from March 1st, 1850, to the present time, at \$20 per annum, which is less than \$1 per 1000 feet; the lamps burning about 7 feet per hour.

Signed, W. FENNELL, Register.

Ригалента, Jan. 30, 1851."

See table A, at the end of this report, showing an annual comparison of the actual copital, profits, and per centage of earnings, the average rate of interest paid on stock, and the price of gas at Philadelphia gas works.

The New York public lamps burn each three feet of gas per hour, for 2300 hours in a year. For this it is proposed to pay \$15 dollars per annum, including \$2 40 per lamp for lighting and extinguishing, which is done by

he gas company, and which, deducted, gives the actual price of the gas at \$12 60, which amounts to \$1 82 per 1000 cubic feet.

The price charged for the public lamps, in Philadelphia, is \$20 each; add \$2 40, for lighting and extinguishing by the police, and the price of each lamp is \$22 40. These lamps are arranged to burn 7 feet of gas per hour, which, for 2300 hours, the time proposed in the New York contract, would make 16,100 feet, which, at \$22 40, is \$1 39 per 1000 feet.

From this it appears, that so far from charging a lower price for gas in New York than in Philadelphia, for the public lamps, as is claimed, the fact is exactly the reverse. Philadelphia pays \$1 39, and New York is to pay \$1 82 for 1000 cubic feet, a difference of 43 cents, or 31 per cent. more.

In Philadelphia, the public lamps are lighted many more They are under the charge of hours than in New York. the police force, and in cloudy or rainy nights, and at other times, at the discretion of the police captains of wards, they are lighted. For this excess of lighting, no charge is made, though it is probably very great, as the parties controlling find a great convenience and advantage in keeping their respective districts light in dark nights. In New York, on the contrary, the lamps are lighted and extingnished by the servants of the gas company, a party interested in consuming in the public lamps as little gas as possible -and it is notorious, that so early in the morning are the public lamps extinguished, that the police find it a difficult part of their duty to prevent and apprehend burglars and other maranders, who take advantage of an hour or two in

which the streets are left in almost total darkness, to perpetrate their outrages upon society unseen, and in comparative security. The gas company, by this close economy, saves a few thousand feet of gas per week, at the expense of the entire community, in more than one respect. This is at a time when the lamps should burn till daylight. It is also well known that during a large portion of the time, when, by the almanac, we depend upon the moon to light our streets, they are left in the most uncomfortable and sometimes dangerous darkness, by reason of rainy or cloudy weather, or because the houses obstruct her light when she is at a less altitude than 45 degrees. If on such occasions the public lamps are lighted, it is at a pro rata increase of compensation to the gas company.

The undersigned begs leave to suggest to your Honorable Body, the very great importance of a change in the arrangement for lighting the public lamps of this city, as soon as practicable. The proper lighting of our streets is one of the most important of the police measures, and it should be within the direction and control of the Police Department to light the lamps, when, by reason of darkness from any cause, they require light in the streets. It can be done cheaper by them because they are necessarily always on the ground, in their various districts, for other purposes, and being the guardians of the night, are the proper judges of the necessity of light. They would willingly, as I am led to believe, perform this slight additional duty for \$2.00 per lamp per annum, which is somewhat less than the estimated allowance for it to the gas companies, who, we have

shown, are the very least proper to be entrusted with this important duty. An account of all extra lighting should be kept by the Captain of Police for each district, to whose judgment it should be left to order extra light when required, and he should be provided with a book to record all such extra lighting, for the inspection of the gas company and the Commissioner of Streets and Lamps, to whom he might be required to make periodical reports of such extra lamp service. The undersigned is confident that the wisdom and economy of this change will be evident on trial, in many other respects, besides (to use the language of the worthy President of the Philadelphia gas works,) "aiding the municipal authorities in their police arrangements, to an extent that the inhabitants of cities imperfectly lighted can scarcely appreciate."

By comparison of the public gas lamp system of the two cities, it will appear how very much to the advantage of the community is the system and amount of payments for the lighting of the streets in Philadelphia, and how much to the disadvantage of our citizens is the system and price of such lighting here. The liberality and efficiency of their public lamp service shines forth in contrast to the inefficiency of ours, in the lower part of the city, as does the dazzling splendor of their seven feet per hour burners, in comparison with our three feet per hour jets of flame, which disclose but rarely dispel the sourrounding darkness. How much superior must a seven feet light be to a three feet light!

Just so superior is their entire system to ours.

Every attention is paid to economy in the use of materials in the Philadelphia gas works, that the most judicious man-

agement can suggest. The Superintendent, John C. Cresson, Esq., who is most admirably qualified for his position, which he has occupied since the commencement of the works, was sent to Europe, in 1845, to visit the principal gas manufactories in England, Scotland and France, to ascertain what improvements in the making and storing of gas might be introduced in Philadelphia with advantage. Since his return, two large telescopic gas holders have been erected, greatly to the economy and advantage of the works, and a third, of still larger dimensions, is now constructing, of which Mr. Cresson, in his proposition for its erection, thus speaks:—

"The experience we have had in the use of two large telescopic gas holders, confirms the belief originally entertained in the economy of that form over the old plan, and that experience seems also to warrant the opinion that increased economy would attend the erection of them of still larger dimensions. The Superintendent submits a plan for one of one hundred and forty feet in diameter and seventy feet in height, with its tank, dry well, &c. This will cost about as much as three of the size lately erected, and have a cubical content equal to five of them." It will also occupy less space on the lot appropriated to gas holders, &c."

This has since been completed and is in use.

In the use of lime for purifying the gas, great economy is attained, as it is all made on the premises, from oyster shells, which cost nothing but their transportation, and they make nearly or quite enough lime beyond their own requirements, to sell to cover the expenses of carting the shells and its own manufacture. (See annual reports of the Philadelphia Gas works.)

In the use of fuel, great economy is also attained. The coals from which the gas is made, are placed in retorts, and the gases with which the coals are impregnated are driven off by the action of hot fires placed under the retorts. These gases are collected, condensed, washed, purified, measured, stored and finally forced through the main pipes to consumers. But the coals have been carbonized by the action of the heat, and have been turned to coke; a considerable proportion of coal tar, &c. This coal tar is an article of commerce, in considerable demand here at all times But the coke is more valuable; it is used as fuel under the retorts, and a large quantity is sold yearly. The quantity produced at the Philadelphia gas works in 1848, from 365,428 bushels of coal, was 518,080 bushels; three and a half bushels of coals producing five bushels of coke. Of the coke thus made in that year, about two-thirds were used as fuel, and the rest sold or for sale. In this city it sells readily from \$4 to \$4 50 per ton, and is becoming as favorite a fuel for domestic purposes, as it is valuable for heating furnaces, &c. The best Newcastle coals produce nearly an equal value of coke after yielding the gas.

The use of the different kinds of coals for making gas, has been a subject of careful and interesting experiment for a long period. The results of these experiments are recorded from time to time in the annual reports from which these notes are taken, and show that though they were formerly obliged to depend upon the Virginia mines for their supply, yet they find the use of Newcastle and Cannel coals very much more advantageous and profitable. They have accordingly made arrangements to receive a full supply of British coals from this city, at an additional expense of sev-

enty-five cents to one dollar a ton, for carriage to Philadelphia. It is alleged on page 1235, Document No. 78, that if the companies located here were to use the soft coals used by the Philadelphia and other companies, the gas would be inferior to what it now is. Now the fact is, that they use the Newcastle and Cannel coals for making gas in Philadelphia, the same kind as is used here, and that it is procured from here, at an additional expense. Therefore, it is certain that in New York gas can be made cheaper than in Philadelphia, and the undersigned sees no reason why it should not be furnished to private consumers and public lamps, as cheap or cheaper than it is furnished there. It does not appear that they have used any considerable quantities of Pennsylvania coal, except for experiment, though in the report of your Special Committee on Gas, Document No. 78, pages 1234 and 1235, it is alledged to form their principal supply; for purposes of argument though, in the table on page 1233 of same report, the material used for gas is stated to be Virginia chiefly. The results obtained at their works, from experiment on a large scale, they say illustrate very forcibly the selection and proper blending of the different varieties of coal, in order to secure the best practical results.

In the matter of waste and leakage, quoted in the report of the Special Committee, Document No. 78, page 1237, as being estimated by several engineers, to be at least eleven per cent. for leakage, and twenty per cent. for waste. The report of the trustees of the Philadelphia Gas Works, states the loss from leakage and waste has fallen below two per cent., a fact which proves the almost perfect tightness of the extensive lines of mains with their numerous joints. If such is the

fact, it is high time that this leakage and waste of thirtyone per cent. should be stopped, and their mains taken up, proved by hydraulic power, (as the Croton pipes are,) and corked with lead instead of cement, and that the citizens, (consumers,) should have the benefit of the difference.

As it is mainly in the perfection of the details of great works, that such unexampled success, as we have found in the affairs of the the Philadelphia Gas Works, can be expected to be attained. A quotation is made from an annual report of the trustees, showing the excellency of their arrangements in this respect.

"Each private consumer is supplied, out of the funds of the concern, with a service-pipe and meter, connected with the street main, and carried within the walls of his premises; and the quantity of gas burned, is determined by the meter, which is examined once in three months, for that purpose; and to prevent its getting out of repair, or registering erroneously, each meter is examined at intervals of about six weeks, by a competent agent of the trustees. The quantity of gas burned in the public lamps is ascertained, by the registering of six standard meters, placed in different parts of the city; each of these meters is connected with a public lamp; and from an average of the register of the whole of them, the quantity delivered to the city, for public lighting, is determined and charged. evidence of the complete accuracy of the system of the distribution, and of the perfect construction of the whole of the apparatus, it has been found that the quantity registered by the meters connected with the burners, and that guaged by the station meters at the works, corresponds

usually within from three to six per cent., the fluctuations depending upon the frequency of opening the mains, either for making further extensions of the pipes for distribution, or of connecting public or private lights with them. The trustees have a further gratification in communicating to the Councils, that by a rigid examination of the gas, made with the most delicate tests, a remarkable freedom from any noxious impurity is exhibited, and its combustion is, perhaps, the most brilliant of that furnished by any works, at present in operation."

The above statements have been compiled to show the great perfection of the system of gas making in Philadelphia, and the constant care and great expense incurred in procuring the most suitable materials to produce a superior quality of gas. In this respect they pretend, and I believe justly, to excel any other gas works in this country, and to be equal to any in the world. It was as absurd therefore for the Special Committee on Gas to state on page 1234 of Doc. No. 78, that the gas furnished in Philadelphia is inferior to that of the New York companies, as it was incorrect for them to state on the same page, that though they pay no taxes to the city, being city works, "the Corporation is obliged to make frequent appropriations for deficiencies, and for extending the works." The facts are directly the reverse of this; for we find that they pay taxes, even for their water, into the city treasury, the same as other property holders; that they have never had deficiencies or appropriations, in the sense alluded to, as will appear by the detail of their business just above presented.

In 1849, as will appear by the Superintendent's account of expenditures, appended to this report, on pp. 534, and

535, is a chargeof "1847, 50 cents for taxes and water." The fact is, that they pay for every thing they receive from the city as any other persons or parties, for the sake of keeping a correct account of the actual cost of the gas.

With respect to loans they use for the extension of their works, they borrow the money themselves, on the city's credit, and they are rapidly accumulating a fund, out of the surplus profits, to pay these loans, which, to a very large extent they have already effected at this time, and more than half of the whole amount of borrowed capital is provided for out of the profits.

See table of Sinking Fund, published on page 526 of this report.

In view of all the foregoing facts, the undersigned would respectfully recommend to your Honorable Body, that in justice to the citizens generally, and to the very large and increasing body of gas consumers in particular, the city authorities should determine the propriety of carrying out one of the following measures:

First:—To makearrangements with the New York Gas Company, under a renewal of their present contract, to place and light public lamps, in a reasonable time, in every street in their district, under such a proper and judicious arrangement as will be equitable, as well to the private consumers as to the public.

If this cannot be effected, then the

Second:—To make arrangements for the city to purchase of the New York Gas Company their gas works, buildings, mains and other property, belonging to the manufacture of gas. The undersigned, in so recommending, entertains no doubt that the New York Gas Company would be willing to sell their works and mains, if the city should decide to purchase them at a fair valuation; but should they refuse to do so, then the undersigned would strongly recommend that before the expiration of the present contract, which expires May 12, 1853, the city should construct gas works of its own, and lay mains through all the streets in the district of the works to a party or company, who would contract to light the public lamps and furnish gas to private consumers at a fair price, or to be prepared to do it on the part of the city.

This the city has an undoubted right to do; for, though the terms of the present contract prevent the city, or any party other than the New York Gas Company, from lighting with gas any part of said district, yet the power and right to make preparations to do so, undoubtedly remains in the city.

If this is not so, then the contract is equivalent to a perpetual contract, which it is absurd to suppose the city intended, or had the power to make.

These works, if built or purchased, the undersigned would recommend should be paid for by the issue of city stock, &c.; if leased, the terms should be at a rate of compensation that will pay for the loan and interest, and refund the debt in a given term of years.

This change can be effected, if it shall be so ordered, without any derangement of the business of the companies, or removal of any persons engaged in their works or offices. The improvements in their operations can be introduced gradually and without any expense to our citizens, as it is shown that they can be paid for out of the profits of the establishment, which must be immense, and fully equal to, if not exceeding the profits in Philadelphia. The advantage would be very much with us, since with our large population we could have a much larger private consumption, if the gas should be furnished at a low price and of the best quality.

It is clear that with the business already established and all the mains laid, and with such an amount of custom for gas as will pay all expenses of manufacturing and interest on the money, all additional consumers are furnished at such additional expense only as is necessary for the increased quantity of material necessary to make the increased quantity of gas; and every such additional customer increases the ability of the gas works to decrease the price of gas to the public, on a regular sliding scale of gradation, as it costs no more to send one hundred thousand feet of gas through the pipes than one thousand feet, and when the whole debt shall be refunded out of the profits-which, probably, will be before the proposed contract will expirethe only charge at that time to the public consumers will be for the materials and conducting the works for the manufacture of gas, which could then be furnished for less than one-half of what it is now furnished at in Philadelphia. This would not be the case if the business remained in the hands of private companies, and consumers would be no

better off than in the commencement, so far as funding the debts, nor would they have the benefit of any improvements that might be introduced to make gas cheaper and better.

It cannot be denied that New York is behind the improvement of the age in gas, instead of being foremost in that particular enterprise, as in every other. We are where Philadelphia was fifteen years since, paying for gas at the rate of thirty-five cents per one hundred feet; they have reduced their prices to half that amount nearly, and during the coming year probably will do so.

The city of Philadelphia, possessing undoubtedly the best and most efficient gas establishment in America, is constantly quoted by our citizens, who have inspected its gas works, as an example for our imitation and emulation; nor does the undersigned perceive any reason why the citizens of New York are not entitled to as good light as any other people, and at as low a price, or that false pride would prevent them from adopting a superior system than our own, because it originated with a neighbor; on the contrary, it will be the disposition, and undoubtedly the determination of our citizens, not only to imitate, but to improve upon the system of Philadelphia, if possible.

The enlightened citizens of New York need only to be fully informed of the operation of the gas system of Philadelphia, to perceive at once the advantages it presents in the place of the evils we now have to submit to, which need not to be stated, as they are but too well known,

having been a subject of constant complaint for many years.

The undersigned now begs to present to this Board more particularly the chief reasons, why he could not, with regard to the true interests of the city, accede to the conditions of the contract reported by the majority of the Committee.

First.—Because it makes no sufficient arrangement for dispensing with the use of the present oil lamps, the expense of which is almost an entire waste of the people's money, nor for the lighting of all the streets in a reasonable time with gas, though the alledged reason for making the contract at all is, that the streets shall soon be lighted.

The district comprised in the contract with the New York Gas Company, is that part of the city south of Grand street. The contract will oblige the company to light West and South streets within the year, but it obliges them to proceed with laying of their mains, only, to the extent of \$10,000 a year.

Now, to complete the lighting of this district, it will require more than seventeen miles of mains to be laid, of various sizes, averaging five inches, and costing more than \$8,000 per mile, and upwards of \$136,000 for the entire distance. The report of the majority Doc. 24, p. 252, states that the condition that \$10,000 shall be expended for laying mains, provides for completing the lighting of that district "in the course of two years," but the above shows that at that rate it will require more than thirteen years and a half!

Second.—Another reason why the undersigned is opposed to and refuses to concur in the report of the Special Committee, reciting the terms of the new contract to be made with the New York Gas Company, is, that article 8 of those terms is objectionable, and calculated to mislead and deceive your Honorable Body, as well as the public, in respect to its practical bearing.

Said article 8 pretends to deprive the gas company of the possession of any monopoly of the business of lighting their district with gas, by allowing any other parties or companies to lay pipes and light buildings in competition with them, which privilege the old contract does not give.

Now let us see how this competition works practically.

Suppose parties should apply to the Corporation for permission to dig up the streets to lay their pipes, would not the gas company and their friends and agents exert a most powerful influence to induce the authorities to consider it unnecessary and improper, on the ground that one set of pipes was enough; that the inconvenience to the public was too great to justify it; and the application would very probably be denied.

But suppose a party or company should obtain permission, lay their pipes, and commence supplying the gas at a lower price than the old company, the latter would undoubtedly reduce the price to consumers in that part of their district, as they could well afford to do, and have a right to do, and thus deprive the new company of customers, and eventually either ruin them, or compromise by buying them off, and then immediately put up their prices to the

old rates or higher. They could afford to buy their pipes, and allow them to rust out under ground. It would operate practically like two steamboats running in opposition at very low prices; as soon as one is bought off by payment of a bonus, the rate is raised again on the public, and probably enough higher than the old rates to pay for the bonus.

The only practical benefit that could arise from this new contract would be but partial, as, for instance, in the case of a large hotel manufacturing gas for its own use, on its own premises, which might afford to supply its immediate neighbors on low terms; but the public at large could derive no practical benefit from it.

The undersigned trusts that these illustrations show that article 8 of the contract operates as a delusion, by pretending to permit competition, where no sane man would entertain for a moment the idea of competing.

There. Another reason why the undersigned could not concur in or sign the report of the majority, is that it makes no provision to require the gas company to furnish gas to private consumers at fair and equal prices, or to protect them in any way against abuses on the part of the company. The terms of the contract, as presented, continue practically the monopoly of the furnishing of gas to private consumers, as shown on page 519 of this report, and it leaves to the company the right to raise or to lower its prices to such consumers, or to vary their prices in different parts of the district. To this the undersigned cannot in duty consent. The rights of private consumers are entire-

ly overlooked, and they are thus left to the tender mercies of the gas company. He thinks it is the duty of the authorities to guard the rights of the private consumer with quite as much solicitude as they show for the lighting of the public lamps.

FOURTH. Another reason why the undersigned cannot sign the report of the majority, is that article second of the terms therein, provides that the gas company shall receive fifteen dollars per annum, "for the light, lighting and extinguishing" of each public lamp; whereas, on page 1235 of the first report of the same Special Committee, Doc. No. 78, it is stated:—

"This is below the cost of the article, even if procured from the most inferior coal, either in the United States or England, being at from eighteen to twenty-one cents per hundred cubic feet, including the cost of cleaning, lighting and extinguishing the lamps."

If this is true, the private consumers will be obliged to pay the difference, which should be paid by the public treasury. All citizens being equally benefited by the lighting of the public streets, is it just to tax private consumers with a portion of the expense? Were this principle correct, thus adopted by the majority of the Committee, it would be proper to make the contract for lighting the public lamps for nothing, which the gas company can well afford to do, at the present prices. Such a sacrifice of the rights of his fellow citizens can never be consented to by the undersigned, however anxious he may be to see the streets properly lighted; nor will he consent to any con-

tract with the gas company, except on conditions which shall protect the private consumers from the abuses they now so loudly and so justly complain of.

The undersigned begs to remark, in conclusion, that the objects he had in view in extending his labors to embrace the mass of facts he has embodied in this report, have been to justify himself in the position he has assumed of opposition to the renewal of the contract on the terms proposed in the report of the majority of the Special Committee, and to present reasons for insisting on some judicious arrangement, by which the district included in the contract of the New York Gas Company, shall be effectually lighted with gas, under the following conditions, viz:

FIRST: That all the streets shall be lighted with gas, as soon as practicable, as the interest of our citizens and the protection of property require.

Second: That in so doing, the rights of private consumers of gas, hitherto entirely overlooked, shall be reasonably protected.

All which is respectfully submitted.

DANIEL DODGE,

Of Special Committee.

ABLE A.

Showing an annual comparison of the actual capital employed in the Philadelphia Gas Works, the inclusive. surplus profits on the same, the per centage of surplus profits, per centage paid on loans, and the total per centage of net carnings, together with the comparative price of gas, from 1842 to 1849,

| 15 2 "                                       | 25000                                                                                        | $\frac{1}{2}$ $\frac{1}{4}$ $\frac{1}{6}$ | 64.792 19                                                                                                           | $22\frac{1}{2}$ c.                         | 670.000                     | 1849 |
|----------------------------------------------|----------------------------------------------------------------------------------------------|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-----------------------------|------|
| 1510 "                                       | 27 20 20 20 20 20 20 20 20 20 20 20 20 20                                                    | 10 4 66                                   | 62.178 35                                                                                                           | $25 \text{ and } 22\frac{1}{2} \text{ c.}$ | 600.000                     | 1848 |
| 17 3 66                                      | 13<br>13<br>13<br>13<br>13<br>13<br>13<br>13<br>13<br>13<br>13<br>13<br>13                   | 11 8 66                                   | 70.917                                                                                                              | 25 c.                                      | 600.000                     | 1847 |
| 1410 "                                       | 10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10                   | 3, <sup>0</sup> 18                        | 51.628                                                                                                              | 30, 28 & 25 c.                             | 600.000                     | 1846 |
| 14.8 "                                       | 51.                                                                                          | $9\frac{3}{10}$ "                         | 55.916 90                                                                                                           | 35 and 30 c.                               | 600.000                     | 1845 |
| 1610 "                                       | . 57<br>-  ∞ -<br>2                                                                          | 11 2 "                                    | 60.692~30                                                                                                           | 35 c.                                      | 540.900                     | 1844 |
| 1516                                         | 52-1                                                                                         | 978 11                                    | 52.418 77                                                                                                           | 35 c.                                      | 540.900                     | 1843 |
| $15\frac{1}{2}$ p. c.                        | $5\frac{1}{2}$ p. c.                                                                         | þ                                         | 610                                                                                                                 | 35 с.                                      | \$524.000                   | 1842 |
| Total per centage of net carnings each year. | 5 and 6 p. c. int. on loans, averaging over 5½ p. c.; say 5½ p. c.—(See Sinking Fund table.) | Per centage of surplus profit each year.  | Surplus profits cach year, after paying interest on loans, materials, and making Gas, and all expenses and repairs. | Price of Gas each<br>year per 100 ft.      | Capital Stock<br>cach year. |      |

The following tables are copied from the fifteenth annual report of the Trustees of the Philadelphia gas works, to the Select and Common Councils of the city of Philadelphia, for the year 1849.

#### CASH ACCOUNT.

| Dr. Balance on hand, January 1st, 1849    | \$27,191  | 54 |
|-------------------------------------------|-----------|----|
| RECEIPTS IN 1849.                         | ,         |    |
| For Interest on City Loans                | 4,163     | 50 |
| Sales of Gas                              | 246,697   | 11 |
| Extra Service Pipes and Meter-cocks       | 5,491     | 55 |
| Coke                                      | 8,834     | 82 |
| Coal Tar                                  | 814       | 45 |
| Lime                                      | 2,298     | 17 |
| Coal                                      | 20        | 00 |
| Old materials                             | 95        | 62 |
| Rent of Wharf                             | 130       | 00 |
| Station Meter sold to Louisville Gas Com. | 503       | 80 |
| Rent of Office and Cellar                 | 70        | 00 |
| Sales of Loan 5th                         | 20,300    | 00 |
| Do. do. 6th                               | 100,000   | 00 |
| Premiums on sales of Loans 5th and 6th .  | 2,375     | 55 |
|                                           | \$418,986 | 11 |

Cr.

#### PAYMENTS IN 1849.

| For | construction and enlargement of the works | \$47,323   | 26 |
|-----|-------------------------------------------|------------|----|
|     | The extension of the Street Mains         | $45,\!354$ | 78 |
|     | Service Pipes and Meters                  | 22,612     | 79 |
|     | Coal and other materials used in the man- |            |    |
|     | ufacture of gas, wages of workmen, &c.    | 171,214    | 40 |
|     | Repairs of the Works, Street Mains, &c.   | 20,559     | 06 |
|     | Incidental Expenses                       | 29,823     | 07 |
|     | Salaries                                  | 5,300      | 00 |
|     | Interest on Loans                         | 27,154     | 99 |
|     | Investments on account of Sinking Fund,   | , 28,904   | 00 |
|     | Wharf Lot on the Schuylkill               | 3,700      | 00 |
|     | Interest on mortgage on do., and arrears  | }          |    |
|     | of rent                                   | . 130      | 85 |
|     | Balance on hand, Jan. 1st, 1850           | 16,908     | 91 |
|     |                                           | \$418,986  | 11 |
|     |                                           |            |    |

## STATE OF THE WORKS JANUARY 1, 1850.

#### ASSETS.

| Works                                      | .\$357,479 | 02 |
|--------------------------------------------|------------|----|
| Street Mains                               | 356,573    | 82 |
| Service Pipes and Meters                   | 159,138    | 60 |
| Public Lamps                               | 11,814     | 02 |
| Cash                                       | 16,908     | 91 |
| Suspended Debt                             | 1,862      | 50 |
| Stocks belonging to Sinking Fund at cost   | 297,560    | 50 |
| Coal on hand, 332,700 bushels, at 20 cents | 66,540     | 00 |
| Forward\$                                  | 1,267,877  | 37 |

| Brought forward                                        |   |
|--------------------------------------------------------|---|
| Coke on hand, 84,000 bushels, at 3 cents 2,520 00      | ) |
| Rosin on hand, 2800 barrels, at \$1 2,800 00           | ļ |
| Due for Gas sold and delivered, and on hand. 68,996 00 |   |
| Due for Coke, Tar, &c                                  |   |
| Interest on City Loans, due Jan. 1, 1850 2,070 50      |   |
| Wharf Lot on the Schuylkill 3,700 00                   |   |
| \$1,349,963 87                                         |   |
|                                                        |   |
| LIABILITIES.                                           |   |
| Loans 1, 2, 3, 4, 5 and 6\$770,000 00                  |   |
| Dividends unpaid                                       |   |
| Interest on Gas Loans, including that due              |   |
| Jan. 1st, 1850                                         |   |
| For Coals, repairs and materials used in the           |   |
| manufacture of Gas 51,089 58                           |   |
| Sinking Fund                                           |   |
| Contingent Fund                                        |   |
| Profit and Loss (amount of Suspended Debt). 1,862 50   |   |
| \$1,349,963 87                                         |   |
|                                                        |   |
| STATEMENT OF THE SINKING FUND FOR THE YEAR 1849.       |   |
| 1849.                                                  |   |
| Jan'y 1, Amount of Sinking Fund this day\$281,864 84   |   |
|                                                        |   |
| Forward                                                |   |

| Brought forward                              | \$281,864 | 84 |
|----------------------------------------------|-----------|----|
| Increase of Sinking Fund in the year 1849:   |           |    |
| June 30, 6 months' interest on \$112,500 Gas | •         |    |
| Loans at 6 per cent                          |           | 00 |
| 6 months' interest on \$87,000 Gas           |           |    |
| Loans at 5 per cent                          | 2,175     | 00 |
| 6 months' interest on \$25,600 City          |           |    |
| Loans at 6 per cent                          | 768       | 00 |
| 6 months' interest on \$52,100 City          |           |    |
| Loans at 5 per cent                          | 1,302     | 50 |
| 6 months' appropriation of 2 per ct.         |           |    |
| per ann. on \$475,000 of Loans 1,            |           |    |
| 2 and 3 $4,750$                              |           |    |
| 3 per. ct. per ann. on \$125,000             |           |    |
| . Loan 4                                     |           |    |
| 4 per ct. per ann. on \$69,000               |           |    |
| Loan 5                                       |           |    |
| 4 per ct. per ann. on \$24,000               |           |    |
| Loan 6, for 1 month 80                       | 8,085     | 00 |
| Dec. 30, 6 month's interest on \$127,600 Gas | 0,000     | 00 |
| Loans at 6 per cent                          | 3,828     | 00 |
| 6 months' interest on \$87,000 Gas           | ,         |    |
| Loans at 5 per cent                          | 2,175     | 00 |
| 6 months' interest on \$25,600 City          | ·         |    |
| Loans at 6 per cent                          | 768       | 00 |
| 6 months' interest on \$52,100 City          |           |    |
| Loans at 5 per cent                          | 1,302     | 50 |
| Forward                                      | \$305,643 | 84 |

| \$317,204                                                                                      | 78 |
|------------------------------------------------------------------------------------------------|----|
| Jan'y 1, Balance not invested                                                                  | 28 |
| \$297,560<br>1850.                                                                             | 50 |
| For \$14,100 Gas 6 per cent. Loan 6, at 4 per cent premium 14,664                              | 00 |
| Oct. 16, For \$1000 Gas 6 per cent. Loan 5, at  4 per cent. premium                            | 00 |
| at par                                                                                         | 00 |
| Jan'y 1, Cost of Investments at this date\$268,656<br>12, For \$13,200 Gas 6 per cent. Loan 5, | 50 |
| The amount invested is as follows:                                                             |    |
| \$317,204                                                                                      | 78 |
| terest to the time when the certificates were is- sued                                         | 94 |
| July, 1849, from which<br>time the Loans bore in-                                              |    |
| Premium on sales of Loans 5 and 6 2,375 55 Less, the interest from 1st                         |    |
| Brought forward                                                                                |    |
|                                                                                                |    |

# CITY AND GAS LOANS BELONGING TO THE SINKING FUND.

Five per cent. City Loans:

| Redeemable in 1851\$600 1854700 1855600 1856300 18572200 18587100 18594000 18611100 18621000 1863300                                           |          |    |
|------------------------------------------------------------------------------------------------------------------------------------------------|----------|----|
| $1864 \dots 1400$ $1866 \dots 1000$ $1867 \dots 7100$ $1870 \dots 9700$ $1871 \dots 5200$ $1872 \dots 7300$ $1873 \dots 2200$ $1874 \dots 300$ |          |    |
|                                                                                                                                                | \$52,100 | 00 |
| 6 per cent. City Loans:                                                                                                                        | ŕ        |    |
| Redeemable in 1876                                                                                                                             | 25,600   | 00 |
| 6 per cent. Gas Loan No. 1:                                                                                                                    |          |    |
| Redeemable in 1862\$10,300                                                                                                                     |          |    |
| 6 per cent. Gas Loan No. 2:                                                                                                                    |          |    |
| Redeemable in 1863 36,700                                                                                                                      |          |    |
| 6 per cent, Gas Loan No. 3:                                                                                                                    |          |    |
| Redeemable in 1861 30,400                                                                                                                      |          |    |
| Forward,                                                                                                                                       | 77,700   | 00 |

| Brought forward, \$77,400 \$77,70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | )0     | 00  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----|
| 6 per cent. Gas Loan No. 5:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        |     |
| Redeemable in 1868 36,100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |     |
| 6 per cent. Gas Loan No. 6:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        |     |
| Redeemable in 1869 14,100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |     |
| 127,60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0(     | 00  |
| 5 per cent. Gas Loan No. 4:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        |     |
| Redeemable in 1866 87,00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0(     | .00 |
| •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |     |
| The cost of the above was\$297,50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 30     | 00  |
| · ,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        |     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        |     |
| STATEMENT OF THE PROFIT AND LOSS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Α(     | C-  |
| COUNT FOR THE YEAR 1849.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        |     |
| 1849.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |     |
| Jan'y 1, Amount due for Coals, materials and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        |     |
| pairs, chargeable to the manufac-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |     |
| ture of Gas\$66,78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 36     | 77  |
| Dec. 31, Sales of Gas in 1849 246,69                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 7      | 11  |
| Sales of a Station Meter to Louisville                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        |     |
| Gas Company 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | )3     | 80  |
| Sales of Coke                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 34     | 82  |
| " of Tar 81                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 4      | 45  |
| " of Lime                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 8      | 17  |
| " of Coal 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0      | 00  |
| " of Old Materials                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 15     | 62  |
| Rent of Wharf 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0      | 00  |
| Rent of Office and Cellar 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0      | 00  |
| Premium on Sales of Loans 1,53                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 5      | 94  |
| Interest to the time when the Loans                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        |     |
| were sold 83                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 9      | 61  |
| Forward,\$328,62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <br>26 | 29  |
| a or marage event |        | ~0  |

| Brought forward,                                |
|-------------------------------------------------|
| Coal                                            |
| Coke                                            |
| Rosin                                           |
| Gas delivered                                   |
| Due for Coke, Lime, Tar, &c 2,000 00            |
| Suspended Debt                                  |
| \$473,344 79                                    |
| Jan'y 1, Amount of Stock on hand and debts      |
| due to the Works at this date\$102,545 19       |
| Dec. 31, Payments during the year, and other    |
| charges against the manufacture of              |
| Gas:                                            |
| Coals and other materials and wages, 171,214 40 |
| Repairs                                         |
| Incidental charges 29,823 07                    |
| Salaries                                        |
| Interest on Mortgage on Wharf Lot. 69 00        |
| Arrears of rent due by tenant of do. 61 83      |
| Premium on sale of Loans appropri-              |
| ated to the Sinking Fund 1,535 94               |
| Appropriation to the Sinking Fund, as           |
| directed by Ordinances 18,110 09                |
| Interest on Loans for the year 1849. 42,040 00  |
| Amount due January 1, 1850, for                 |
| Coals, repairs and materials used               |
| in the manufacture of Gas 51,089 58             |
| Suspended debt, January 1, 1849 1,544 35        |
| Balance                                         |
| \$473,344 79                                    |

| The above balance of                             | 35 |
|--------------------------------------------------|----|
| Less the sum of                                  | 15 |
| The difference between the amount of             |    |
| the Suspended Debt, Jan. 1, 1849,                |    |
| and Jan. 1, 1850, gives the net in-              |    |
| crease of the Contingent Fund for                |    |
| 1849                                             | 20 |
| STATEMENT OF THE CONTINGENT FUND F<br>1849       | OR |
| Amount of the Fund, January 1, 1849 \$163,440    | 85 |
| Increase during the year, as per profit and loss |    |
| account                                          | 20 |
| \$192,575                                        | 05 |
| The amount provided by various Ordinances        |    |
| for the construction and enlargement of the      |    |
| works, and for extraordinary repairs and re-     |    |
| newals, has been, to Jan. 1, 1850:               |    |
| Loans 1, 2, 3, 4, 5, 6\$770,000                  | 00 |
| Contingent Funds, raised from profits, 192,575   |    |
| <u></u><br>\$962,5 <b>7</b> 5                    | 05 |
| The amount expended has been:                    |    |
| Construction of Works\$357,478                   | 02 |
| Street Mains 356,574                             |    |
| Service Pipes and Meters 159,138                 |    |
| Public Lamps                                     | 02 |
| Wharf Lot on the Schuylkill 3,700                | 00 |
| \$888,705                                        | 46 |
| Balance unexpended 73,869                        | 59 |
| \$962,575                                        |    |

The liabilities of the works for the objects to which the above Fund is applicable, are as follows:

| Construction of Works                  | \$7,500  | 00 |
|----------------------------------------|----------|----|
| Street Mains, Service Pipes and Meters | 51,000   | 00 |
| Total                                  | \$58,500 | 00 |

## 1849.—SUPERINTENDENT'S ACCOUNTS.

| WORKS.                                                                                     | STREET MAINS.                                                                                                                                                          | SERVICES.                                          |
|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| Wages of laborers and fitters employed in erecting new works. \$4013 13           Castings | Lead     6891 43       Carting     1881 43       Paving     1685 17       Chandlery     305 57       Lumber     145 02       Stop-Coeks     71 25       Iron     51 65 | and setting and fitting up meters \$3351 50 Meters |
| Total\$47323 26                                                                            | Total\$45354 78                                                                                                                                                        | Total \$22612 79                                   |

### 1849.—SUPERINTENDENT'S ACCOUNTS.

| GAS.                                                                                                                          | REPAIRS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | INCIDENTALS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Wages of stokers, &c., employed in retort house and purifying house, manufac- turing gas, and wheeling coals.\$31567 79 Coals | Wages of carpenters, blacksmiths, fitters and laborers engaged in repairs of works, street mains, and services. \$6954 79 Castings 7405 45 Meters. 2484 75 Fire bricks. 1313 53 Hardware 636 69 Iron. 520 07 Paving and Brick laying 317 39 Paints and painting 216 17 Lime and hair. 147 31 Bricks 133 54 Lumber 101 83 Wheelwright work 65 23 Hose 60 00 Oil 49 64 Mill boards 35 55 White lead 30 80 Loam 24 68 Leveling rod, target, &c. 17 75 Tallow 18 24 68 Leathering bellows Sand 12 00 Willowing frames. 2 25 | Wages of men employed in inspecting fittings and meters, taking statements for bills, in care of public lamps, storing coals and coke, cle k hire; measuring coke and lime and other incidental matters not appertaining to other specified heads. \$19985 50 Rents. \$1985 50 Rents \$1985 50 Rents \$1985 50 Rents \$1985 50 Reports of lighting \$143 39 Horse keep. \$113 24 Rents \$1985 50 Reports of lighting \$143 39 Horse keep. \$113 24 Rents \$1985 50 Reports of lighting \$143 39 Horse keep. \$113 24 Rents \$1985 50 Reports of lighting \$143 39 Horse keep. \$113 24 Rents \$1985 50 Reports of lighting \$1985 50 Reports of |
| Total\$171,214 40                                                                                                             | Total\$20559 06                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Total\$29823 07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

#### CITY REGISTRY.

| Date.                                                                                   | Applications.                                                      | Removals,<br>Discontin-<br>nances.                                         | Private                                                                                 | Lights.                                                                                                  | Public Lights.                     |       |         |  |  |
|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|------------------------------------|-------|---------|--|--|
| 1849.                                                                                   | ,a                                                                 |                                                                            | Added.                                                                                  | Total.                                                                                                   | Streets.                           | м. н. | Sq'res. |  |  |
| To Jan. 1st.                                                                            | 13523                                                              | 6395                                                                       |                                                                                         | 76412                                                                                                    | 1318                               | 37    | 62      |  |  |
| January. February. March April May June July Angust September October November December | 120<br>148<br>165<br>207<br>137<br>127<br>203<br>260<br>267<br>224 | 92<br>83<br>93<br>80<br>106<br>83<br>76<br>107<br>133<br>114<br>113<br>100 | 703<br>595<br>874<br>891<br>1373<br>1216<br>850<br>1741<br>2598<br>2960<br>2251<br>1998 | 77115<br>77710<br>78584<br>79475<br>80848<br>82064<br>82914<br>84655<br>87253<br>90213<br>92464<br>94462 | 2<br>25<br>11<br>2<br>9<br>8<br>12 |       |         |  |  |
| Total<br>Brought down.                                                                  | 2191<br>13523                                                      | 1180<br>6395                                                               | 18050                                                                                   |                                                                                                          | 74<br>1318                         | 37    | 62      |  |  |
| Grand total                                                                             | 15714                                                              | 7575                                                                       |                                                                                         | 94462                                                                                                    | 1392                               | 37    | 62      |  |  |

# REGISTRY OF THE DISTRICTS.

| *                                         | Private Lights. | Public Lights  | м. н. |
|-------------------------------------------|-----------------|----------------|-------|
| Spring Garden<br>Southwark<br>Movamensing |                 | 184<br>57<br>9 | . 7   |
| Totals                                    | 14381           | 250            | 7     |

### REGISTRY OF METERS.

| DATE.                                                                                             | SERV-<br>ICES<br>LAID.                                                   |                                                                      | METERS SET                                         |                                                         |                                                     |             |                |             |              | PUBI                               | PUBLIC LANDS. |        |  |
|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------|-------------|----------------|-------------|--------------|------------------------------------|---------------|--------|--|
| 1849.                                                                                             |                                                                          | 3<br>ligh t                                                          | 5<br>light                                         | 10<br>light                                             | 20<br>light                                         | 30<br>light | 45<br>light    | 60<br>light | 100<br>light | On posts.                          | On wall.      | Market |  |
| To Jan'y 1st.                                                                                     | 7130                                                                     | 3892                                                                 | 1959                                               | 1042                                                    | 157                                                 | 44          | 22             | 4           | 10           | 1134                               | 184           | 37     |  |
| Janaury. February. March. April. May. June. July. August. September. Cotober. November, December. | 49<br>41<br>54<br>86<br>102<br>56<br>51<br>98<br>129<br>156<br>112<br>95 | 22<br>21<br>22<br>33<br>29<br>21<br>22<br>27<br>46<br>33<br>50<br>40 | 10<br>19<br>25<br>44<br>16<br>15<br>34<br>42<br>68 | 4<br>10<br>24<br>22<br>17<br>13<br>32<br>34<br>42<br>14 | 1<br>4<br>2<br>4<br>6<br>2<br>1<br>3<br>7<br>8<br>4 | 3 1 2       | 2 2 1          | 1           | 1 . 1        | 2<br>222<br>7<br>1<br>8<br>8<br>12 | 3 4 1 1 2     |        |  |
| Total<br>Brought down.                                                                            | 1029<br>7130                                                             |                                                                      | 366<br>1959                                        | 234<br>1042                                             | 46<br>157                                           | 7           | $\frac{5}{22}$ | 2           | 3<br>10      | 63<br>1134                         | 11<br>184     | 37     |  |
| Grand total                                                                                       | 8159                                                                     | 4258                                                                 | 2325                                               | 1276                                                    | 203                                                 | 51          | 27             | 6           | 13           | 1197                               | 195           | 37     |  |

### REGISTRY OF MAINS.

| DATE.                                       | MAIN PIPES LAID IN STREETS, LINEAL FEET. |                                 |                    |                      |                                                 |                            |             |                                |                     |            |                                              |
|---------------------------------------------|------------------------------------------|---------------------------------|--------------------|----------------------|-------------------------------------------------|----------------------------|-------------|--------------------------------|---------------------|------------|----------------------------------------------|
| 1849.                                       | $\frac{1\frac{1}{2}}{\text{inch.}}$      | 2<br>inch.                      | 3 inch.            | 4 inch.              | 6 inch.                                         | 8 inch.                    | 10<br>inch. | 12<br>inch                     | 16<br>inch          | 20<br>inch | Total.                                       |
| To Jan. 1st                                 | 426                                      | 59916                           | 178591             | 112282               | 32431                                           | 11898                      | 10058       | 10881                          | 2340                |            | $418823$ or $79\frac{1}{3}$ miles.           |
| January<br>February<br>March<br>April       |                                          | 1542<br>2430<br>264             | 18<br>2133<br>1422 |                      | 1494                                            | 441<br>387                 |             |                                |                     |            | 2460<br>5004<br>3828                         |
| June July August Scptember October November |                                          | 282<br>66<br>4500<br>312<br>192 | $\frac{441}{2871}$ | 1242<br>1611<br>1710 | $\begin{array}{c} 81 \\ 1269 \\ 72 \end{array}$ | 954<br>495<br>1656<br>3546 | 2142        | 900<br>234<br>261<br>1215<br>9 | $\frac{1251}{1143}$ |            | 2442<br>1551<br>8982<br>8775<br>8223<br>8760 |
| Total Bt. down.                             |                                          | 102<br>9690                     | 252                | 5724                 | 2934<br>32431                                   | 5805<br>13284              |             |                                |                     |            | 6177                                         |
| Gd. to al .                                 | 426                                      | 69600                           | 187708             | 118006               | 35365                                           | 25182                      | 14324       | 13500                          | 1041                | 495        | 475025                                       |

<sup>\*</sup> Or nearly 90 miles.

### REPAIRS OF SERVICES.

| 1849.      | Stop-cocks renewed. | New covers for<br>Stop-cock<br>boxes. | Services renewed. | New Stop-<br>cock boxes. |
|------------|---------------------|---------------------------------------|-------------------|--------------------------|
| January    | 1                   |                                       |                   | 1                        |
| February   | 1                   | 1                                     | •                 | i                        |
| March      |                     | 8                                     | 1                 |                          |
| April      | 2                   | 16                                    | 5                 | 3                        |
| May        | 4                   | 13                                    | 3                 | 6                        |
| June       | 2                   | 8                                     | 2                 | 3                        |
| July       | 4                   | 5                                     | 1                 | 3                        |
| August     | 1                   | 2                                     | 2                 | 1                        |
| September  | 3                   | 7                                     |                   | 4                        |
| October    | 6                   | 3                                     | 4                 | 1                        |
| November . | 5                   | 2 '                                   | 2                 |                          |
| December   | 5                   | 3                                     | 7                 | 4                        |
| Total      | 33                  | 68                                    | 27                | 25                       |

#### STATEMENT OF GAS PAID FOR IN EACH MONTH OF THE YEAR.

| 1849.                | Cubic feet.        | Private consumption. | Public<br>Lamps. | Spring<br>Garden. | Southwark | Moyamen-<br>sing. |
|----------------------|--------------------|----------------------|------------------|-------------------|-----------|-------------------|
| January              | 13729000           | 11054100             |                  | 2674900           |           |                   |
| February             | 9320400            | 9320400              |                  |                   |           |                   |
| March                | 15680600           | _S783700             | 6896900          |                   |           |                   |
| April                |                    | 10142800             |                  | <b>24765</b> 00   | 186300    | 10300             |
| May                  | 7404400            | 7404400              | *****            |                   |           |                   |
| June                 | 13323500           | 7601400              | <b>57224</b> 00  | 1000000           | 2000      | 10.100            |
| July                 | 8799100            | 6513400              |                  | 1866000           | 371300    | 48400             |
| August               | 4362900<br>8847250 | 4362900<br>4271100   | 4576150          |                   |           |                   |
| September<br>October | 8702700            | 5934700              | 4970190          | 2133200           | 573100    | 61700             |
| November             | 7466100            | 7466100              |                  | 2100200           | 313100    | 01700             |
| December             | 17219300           | 9888800              | 7329500          |                   |           |                   |
|                      | 127671450          | 92744800             | 24524950         | 9150600           | 1130700   | 120400            |
|                      |                    | 24524950             |                  | 1130700           |           |                   |
|                      |                    | 10401700             |                  | 120400            |           |                   |
|                      |                    | 127671450            |                  | 10401700          |           |                   |

#### STATEMENT OF GAS DELIVERED TO PUBLIC AND PRIVATE LIGHTS IN EACH YEAR.;

| Year. | Public<br>Lights. | Private<br>Lights. | Spring<br>Garden. | South-<br>wark. | Moya-<br>mensing. | Used at offices,<br>shop and works,<br>and loss by leak-<br>age, &c. | Made at<br>Works. |
|-------|-------------------|--------------------|-------------------|-----------------|-------------------|----------------------------------------------------------------------|-------------------|
| 1836  | 978812            | 4752740            |                   |                 |                   | 749748                                                               | 6481300           |
| 1837  |                   | 14454891           |                   |                 | 1                 | 1226122                                                              | 17078700          |
| 1838  | 3013546           | 22366004           |                   |                 |                   | 1977450                                                              | 27357000          |
| 1839  | 6280654           | 30658145           |                   |                 |                   | 2534201                                                              | 39473000          |
| 1840  |                   | 34874380           |                   |                 |                   | 2506820                                                              | 45410000          |
|       | 10208180          |                    |                   |                 |                   | 1415820                                                              | 51272000          |
|       | 13292000          |                    |                   |                 |                   | 922170                                                               | 50811000          |
|       | 12985851          |                    |                   |                 |                   | 1324249                                                              | 48890000          |
|       | 13608356          |                    |                   |                 |                   | 1152844                                                              | 54784000          |
|       | 17373798          |                    |                   |                 |                   | 926402                                                               | 65003000          |
|       | 19164106          |                    |                   |                 |                   | 906694                                                               | 75454000          |
|       | 19122293          |                    |                   |                 |                   | 1846007                                                              | 91547000          |
|       | 19924700          |                    |                   |                 |                   | 1109950                                                              | 106773000         |
| 1849  | 24524950          | 96247100           | 10713200          | 2322800         | 195800            | 1505150                                                              | 135509000         |
|       |                   |                    | 20200700          | 2322800         | 195800            |                                                                      | 815843000         |

## INDEX.

| Introduction rel                                                                | lating to Repo   | ort of Special  | Committee, Dcc. 11, 1850, (Doc.   | łΕ  |
|---------------------------------------------------------------------------------|------------------|-----------------|-----------------------------------|-----|
| No. 78)                                                                         |                  |                 |                                   |     |
| Report and Resolution of do., adopted                                           |                  |                 |                                   |     |
| Concurred in by the Board of Assistant Aldermen                                 |                  |                 |                                   |     |
| Vetoed by the Mayor                                                             |                  |                 |                                   |     |
| Recommitted for                                                                 | or reconsiderat  | ion             | 4                                 | 96  |
| Alderman Dodg                                                                   | c appointed or   | Committee       | 4!                                | 96  |
| Report and recommendation of the majority of Committee                          |                  |                 |                                   |     |
|                                                                                 |                  |                 | ,                                 |     |
| Reasons for diss                                                                | ent, sustained   | by reference to | Philadelphia Gas Works496, 49     | 97  |
|                                                                                 |                  | •               |                                   |     |
|                                                                                 |                  |                 | r 1841 49                         |     |
| 46                                                                              |                  |                 | 1842                              |     |
|                                                                                 | • 6              |                 | 1843                              |     |
| 44                                                                              | 66               | "               | 1844                              | 99  |
| "                                                                               | "                | "               | 1845                              |     |
| 66                                                                              | 66               | "               | 1846                              |     |
| 66                                                                              | 66               | 66              | 1847                              |     |
| 66                                                                              | 66               |                 | 1848                              |     |
| 4.6                                                                             | "                | 66              | 1849                              |     |
| <6                                                                              | • •              |                 | 1850                              |     |
| Recapitulation                                                                  | of results of th | ne ten vears    |                                   |     |
| Terms of supplying the suburbs of Philadelphia                                  |                  |                 |                                   |     |
|                                                                                 |                  |                 | Report of the Special Committee,  |     |
|                                                                                 |                  |                 | 50                                | 0.4 |
|                                                                                 |                  |                 | ablic lamps in Philadelphia 50    |     |
| Official statement of prices of Gas in Philadelphia, for public and private use |                  |                 |                                   |     |
|                                                                                 | 1                |                 | harge for gas for public lamps in | ,,, |
|                                                                                 |                  | -               |                                   | )5  |
| New York,  Do. for public lamps in Philadelphia,                                |                  |                 |                                   |     |
| Do. for public lamps in Philadelphia,                                           |                  |                 |                                   |     |
| Comparison of the two systems,                                                  |                  |                 |                                   |     |
|                                                                                 |                  |                 |                                   |     |
| Suggestion that the police of New York should light the public lamps,           |                  |                 |                                   |     |
| Advantages of do., and compensation to police,                                  |                  |                 |                                   |     |
| The Superintendent                                                              |                  |                 |                                   |     |
|                                                                                 |                  |                 |                                   |     |

|                                                                                 | GE          |
|---------------------------------------------------------------------------------|-------------|
| Telescopic gas holders,                                                         | 509         |
| Economy of lime for purifying,                                                  | 509         |
| Economy in use of coke for fuel,                                                | 510         |
| Value of residuum of coal, after making gas, viz. coke, coal tar, &c            | 510         |
| Results of experiments on different coals,                                      | 511         |
| Correction of statement of report of Special Committee, (Document No. 78,)      |             |
| on material used in Philadelphia,                                               | 511         |
| Waste and leakage in New York and Philadelphia,                                 | 511         |
| Quotation showing the perfection of detail in Philadelphia works,               | 512         |
| Superior brilliancy of Philadelphia gas,                                        | 513         |
| Correction of statement in report of Special Committee, (Document No. 78,)      |             |
| in relation to comparative quality of Gas,                                      | 513         |
| Do. in relation to paying of taxes,                                             | 513         |
| Do. in relation to pecuniary assistance received from the city, to make up de-  |             |
| ficiencies,                                                                     | 514         |
| Recommendations of Alderman Dodge, for relief of gas consumers in New York,     | 514         |
| Either, first, for a conditional renewal of present contract with New York Gas  |             |
| Company ;                                                                       | 514         |
| Or second, to purchase their works or build others                              | 515         |
| For the city to carry on the works, or to lease them on conditions favorable to |             |
| the interests of gas consumers,                                                 | 515         |
| Advantages of the latter recommendation to the city,516,                        | 517         |
| Reasons of Alderman Dodge for not acceding to the conditions of the contract,   |             |
| reported by the majority,                                                       | 521         |
| First-In relation to an early substitution of gas for the present oil lamps,    | 518         |
| Second—In relation to the monopoly,                                             | 519         |
| Third—In relation to the rights of private consumers,                           | 520         |
| Fourth—In relation to the rights of private consumers,                          | 521         |
| Concluding recommendations,                                                     | 522         |
| Comparison Table (A) of the gas business of Philadelphia, showing per centage   |             |
| of net earnings on capital, and the price of gas, &c                            | 523         |
| Cash account of Philadelphia gas works, for 1849,                               | 524         |
| State of the works in 1849                                                      | 525         |
| Statement of Sinking Fund, for extinguishing the debt of 1849,                  | 526         |
|                                                                                 | 529         |
| Profit and loss account,                                                        | 530         |
| Contingent Fund,                                                                | 532         |
| Superintendent's accounts,534,                                                  | 535         |
| Gas Registry,                                                                   | 537         |
| Registry of meters,                                                             | <b>53</b> 8 |
| Registry of mains,                                                              | 539         |
| Repairs of services,                                                            | 540         |
| Annual and monthly gas delivery,                                                | 541         |